Comment No.	Comment	Response	
	Department of Public Health & Environment (CDPHE) Comments		
	General Comment		
1	The draft RI/FS understates the type and extent of institutional controls that are necessary to ensure protection of human health and the environment. There are several reasons for this:	Please see responses to specific CDPHE comments below.	
	 The document implicitly assumes the existence of numerous restrictions on land use (institutional controls), and consequently fails to identify and analyze the need for such controls. Differences between the "action level" orientation to cleanup under RCRA/CHWA corrective action and the site-specific risk assessment required under CERCLA. RFCA's Attachment 5 (the Action Level Framework) reflects the first approach, while the RI/FS and the underlying Comprehensive Risk Assessment Methodology focus largely on the latter. The biased sampling methodology was not designed to detect all possible hot spots, but rather to efficiently characterize areas of possible, suspected or known contamination. 		
	These comments will be explained in greater detail in the "specific comments" section, below.		
1	Specific Comments ES 4 Section 2.2. Leaf contains a Bouleau "man," with "will"	Charles and 1	
1	ES-4 Section 2.3, last sentence: Replace "may" with "will."	Change made.	
2	ES-8 section 4.3: Typo at end of paragraph looks like it should be "5.0 through xx"	The end of the last sentence in the last paragraph will be corrected as follows: " are found in Sections-5.0."	
3	Section 5.2 and Fig ES.4 – Please expand this discussion and make appropriate changes to include the sentinel well recently	The text will be revised to reflect the groundwater conclusion found in Section 8.4.3.	

	placed south of S. Walnut Creek across from former B991 to check on the potential plume that may emanate from the disrupted gravel drain that was carrying contaminated water to the discharge pipe that was removed.	The well (45605) placed south of S. Walnut Creek across from former B991 was installed after July 31, 2005 and data from that well is not used in the RI/FS evaluation. Figure ES.4 will not be changed. Figure ES.4 reflects the groundwater and surface water locations evaluated in the RI/FS Report. Section 11.0 references the FY 2005 IMP, Revision 1, as the source for the groundwater monitoring locations for purposed of the final remedy. The well referred to in the comment is included in the FY 2005 IMP, Revision 1.
4	Section 5.2, last bullet/paragraph – Please remove this statement/bullet or properly modify it to make an appropriate statement. Considering that contaminated groundwater above MCLs requiring treatment can be found outside the former IA boundary, this appears to be an incorrect statement that needs to be changed. However, it is our understanding that groundwater leaving RFETS is acceptable for all uses.	The last bullet/paragraph in Section 5.2 (now Section 6.2) is a separate paragraph and will be revised as follows: "Groundwater contamination above maximum contaminant levels (MCLs) exists in some areas of RFETS.; however, groundwater outside the former IA is acceptable for all uses."
5	Section 5.2, next to last paragraph - Please modify the last sentence of the next to last paragraph (before the last bullet/paragraph) to properly convey the thought being made, since the last sentence does not appear to make sense. Since when is the "goal" of groundwater to protect surface water? It is our understanding that groundwater must be cleaned up as necessary to prevent contamination of surface water, to be protective of surface water. As such please rephrase this discussion.	No change made. It is a goal of the CERCLA program to return groundwater to its beneficial use.
6	ES-13, section 6. This would be a good place to highlight that the CRA fulfills CERCLA requirements for a risk assessment (40 CFR § 300.430(d)(4)), and does not address RCRA/CHWA requirements. Perhaps something like the following: "CDPHE defines acceptable risk to human health under	The RFCA Parties have worked on and agreed to the following language: "CDPHE guidance requires evaluation of contaminant concentrations on a solid waste management unit or release site basis. As discussed in Section 1.2.3, this was implemented at

	RCRA/CHWA somewhat differently than EPA does under CERCLA and the NCP. One of the key differences is that under RCRA/CHWA, human health risk is evaluated on an individual release site basis, as opposed to the exposure unit approach followed under the NCP and in the CRA for Rocky Flats. Individual release sites with hazardous constituent contamination that presents a cancer risk exceeding 10 ⁻⁶ or a hazard index of 1 for the anticipated user require a Corrective Measures Study to identify appropriate corrective actions. Corrective actions include treatment, removal, and physical or institutional controls. The accelerated action approach used at Rocky Flats was applied on an individual release basis. Contamination in excess of levels corresponding to a cancer risk of 10 ⁻⁵ or hazard index of 1 for a WRW was treated or removed. Sections 3 through 6 of the RI/FS identify areas of the site where contamination remains above cancer risk levels of 10 ⁻⁶ or HI of 0.1. These areas are addressed in the CMS (sections 9 and 10)."	RFETS on an IHSS-by-IHSS basis during the accelerated action process. As noted in Section 1.4.3, by addressing cumulative impacts from multiple release sites, the CRA's exposure unit approach complements, but does not supplant, the Colorado Hazardous Waste Act's (CHWA's) emphasis on individual release sites. Because the parties had anticipated using institutional controls consistent with the anticipated future use of the site, CDPHE determined that a post-remediation analysis of residual risk on a release site basis was not necessary." This language will be incorporated in the Executive Summary and throughout the body of the Report.
7	ES-13, section 6.1: It would be helpful to explain briefly why there are no subsurface COCs.	Based on the steps of the COC identification process, no COCs were identified for subsurface soil/subsurface sediment in the HHRA for any of the EUs. This explanation will be added to Section 6.1.
8	Section 6.4 – It is suggested that this discussion be modified to identify that the evaluation of indoor air was performed even though no structures are supposed to be constructed in the IA or in areas with known VOC contamination.	No change made. The indoor air inhalation pathway was identified as an insignificant pathway in the CRA Methodology. The CRA Methodology required that the evaluation be completed to confirm that this pathway was correctly identified as insignificant. The result of the evaluation is that the indoor air inhalation pathway is a potential indoor air risk in the IAEU and several adjacent EUs if buildings were constructed. The result is further evaluated in the FS.
9	Section 8.1.1, RAO 2 – Please provide additional discussion and modify this discussion to properly recognize that contaminated groundwater is to be remediated to prevent degradation of surface water quality and thereby be remediated to be protective	The text will be revised to reflect the groundwater RAO 2 conclusion found in Section 10.2.2.2. Please see response to CDPHE specific comment 5.

	of surface water. It is not correct to state that groundwater has a "beneficial use of surface water protection". As such, please modify this to provide a correct statement. Also, please provide a discussion that the concern with remaining groundwater contamination and possible future concerns (adverse effects on surface water quality) will be addressed and evaluated in the FS & CAD/ROD.	Section 8.1.1 (now Section 9.1.1) is a summary of the RAO evaluation which is part of the FS.
10	ES-17 – Should clarify that GW RAO 3 is not met without institutional controls.	The text will be revised to reflect the groundwater RAO 3 conclusion found in Section 1 0.2.2.3.
11	Section 8.1.2 – Please modify this discussion to recognize that surface water quality is supposed to meet WQCC standards everywhere on site, not just at the POCs (where compliance will be measured). Only exception being the on-site Nitrate levels down gradient of the Solar Pond Treatment Unit, which has been temporarily allowed to be above the WQCC standards (except at the POCs), but will eventually need to meet the appropriate standards. As such, this RAO may currently be met at the POCs but not everywhere on site. Therefore, the broader goal of this RAO has not been met. As such, please appropriately expand this discussion.	The text will be revised to reflect the surface water RAO conclusion found in Section 10.3.2.1.
12	Section 8.1.3, RAO 1 – Please provide further discussion regarding how Soil RAO 1 has been met. Soil contamination that may leach into and contaminate groundwater resulting in an exceedance of the GW RAOs still exists on site (B730 area, 903 Pad, Oil burn Area, Solar Ponds, etc), which raises concerns that although there are currently no known releases, it is difficult to state that this RAO has been met.	The text will be revised to reflect the soil RAO 1 conclusion found in Section 10.4.2.1.
13	Section 8.1.3, RAO 2 – Please provide further discussion regarding how Soil RAO 2 has been met. Expand this discussion to recognize that groundwater continues to be adversely effected by remaining soil contamination, which could adversely affect the groundwater RAOs in the future, which could adversely affect the surface water RAOs in the future.	The text will be revised to reflect the soil RAO 2 conclusion found in Section 1 0.4.2.2.

1	This remaining soil contamination continues to be released into	
	the groundwater and into surface water from the east trenches	
	into Pond B2, and into North Walnut Creek from the Solar	
	Ponds (the elevated nitrate levels). In addition, there remain	
	other areas of soil contamination and related plumes, such as the	
	Carbon Tetrachloride plume from the B730 area and the newly	
	disrupted VOC contamination south of B991 that could still	
	cause future issues with the groundwater and surface water	
	RAOs. This raises concerns that this RAO has yet to be met.	
14	Section 8.1.3, RAO 3 – Please provide further discussion	The text will be revised to reflect the soil RAO 3 conclusion
	regarding how Soil RAO 3 has been met regarding unrestricted	found in Section 10.4.2.3.
	future use of this area considering the remaining levels of	
	plutonium contamination. Specifically, need to properly address	
	the apparent contradiction/confusion in statements in the 3 rd and	
	5 th paragraphs. In the 3 rd paragraph it is stated that this area is ok	
	for unrestricted use, but in the 5 th paragraph it indicates that it	
	does not meet the requirements for unrestricted use. As such	
	please provide additional discussion regarding the differences	
ļ	between "dose" and "risk".	
15	ES-18, discussion of Soil RAO 3 – This is an example of where	Please see response to CDPHE specific comments 6 and 14.
ì	the document implicitly assumes certain use restrictions are in	Please see Executive Summary Section 7.0, Reconfiguration and
	place. There is residual soil contamination at levels that exceed	Renaming of the OUs.
	10 ⁻⁶ for an unrestricted use scenario. Calculated risks to the	
	WRW and WRV are what they are in part because of exposure	
	assumptions in the CRA methodology. To achieve the WRW	
	and WRV risk levels calculated in the CRA, there needs to be	
	use restrictions that are consistent with the WRW and WRV	
	exposure assumptions, in order for this RAO to be met. The	
	potential for unknown hot spots also warrants use of institutional	
	controls. Finally, to meet this RAO for purposes of	
	RCRA/CHWA, institutional controls would be necessary for	
	areas of residual hazardous constituent contamination in excess	
	of 10 ⁻⁶ or HI of 1, as discussed above.	
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16	ES Section 8.1.3 (p. ES-18) – The state radiological	The paragraph in question will be deleted and the text will be
	decommissioning requirements are considered relevant and	revised to reflect the soil RAO 3 conclusion found in Section
	appropriate requirements – should they be cited in the 3 rd	10.4.2.3.
	paragraph under Soil RAO 3? The dose assessment, which will	
	be attached to the RI/FS, is the basis for the statement at the end	
	of this paragraph (and in requirement 6 on the following page)	
	and should probably be cited here.	
17	Section 8.2 - #1 As discussed above, surface water quality	The text will be revised to reflect the text in Section 10.5.2.
	standards are not met everywhere on site. This needs to be	
	recognized and discussed. #2 As discussed above, groundwater	
	standards are not met everywhere on site and currently	
	contributes to surface water exceedances. In addition, future	
	issues could cause problems that may need to be recognized and	
	addressed. Also, additional actions "can" always be taken.	
	Therefore, please change this inappropriate statement. #6	
	Although this discussion may be appropriate for this ARAR, it	
	again appears to indicate that this area is ok for unrestricted	
	(residential) use, which is not a correct statement from a risk	
	perspective. #7 & #8 please include a recognition and discussion	
	of the Solar Ponds RCRA Unit closure, effluent, and treatment.	
18	ES-20 – The Environmental Covenant ARAR is not met by the	The text will be revised to reflect the text in Section 10.5.2.
	accelerated actions, because no covenant has been executed	
	(even when the PLF EC is executed, it will only include IC's	
	related to the PLF itself).	
19	Section 9 – Please modify the statement in the last paragraph	The text will be revised to reflect the text in Section 9.6.
	regarding the RAOs and ARARs being met (not) in the IA OU.	
	Modify as previously discussed above.	
20	Section 10.0 – It is our understanding that there remain some	The text will be revised to reflect that the systems are operating
	potential issues with the proper and successful operation of at	as designed rather than operating properly and successfully.
	least some of the treatment systems. As such please modify the	as accepted taking property and successfully.
	statement in the 3 rd bullet by removing the statement, "which are	
	operating properly and successfully". Also, please remove the	
	same language from the next paragraph in regard to the Present	
L	same language from the next paragraph in regard to the Fresent	

	Landfill treatment system.	
21	Section 10.0 - Please modify the last paragraph, as per previous	No change made. Please see response to CDPHE specific
	comments, to remove the "beneficial" use of groundwater is to	comment 5.
	protect surface water.	
22	Section 10.2 – 1 st Paragraph, 4 th Sentence - Please also include	The text will be revised to reflect the text in Section 11.3.1.2.
	other physical controls in addition to signage, such as fencing or	
	other barriers to control/restrict access.	
23	Section 10.2 – 5 th Bullet - Please modify to include prohibition or	The text will be revised to reflect the text in Section 11.3.1.2.
	restriction of any activity that would disturb the soil or cover.	
24	ES-22, first para. – Strike the second sentence. The no action	The text will be revised to reflect the text in Section 11.3.1.2.
	alternative cannot include a new response action, and an	
	institutional control (the EC) is a response action.	
25	EC-22, section 1 0.2 ("Alternative 2") – The first paragraph	The text will be revised to reflect the text in Section 11.3.1.2.
	should be revised to indicate that IC's will also be added to:	
	ensure future site use is consistent with the exposure assumptions	·
	in the CRA; meet CDPHE risk management policies; and address	
	the potential for unknown subsurface hot spots.	
26	EC-22, next to last para. – I suggest striking this paragraph, as it	The text will be revised to reflect the text in Section 11.3.1.2.
	is unnecessary, speculative, and overly broad (IC's are required	
	for reasons other than to meet SW standards or to prevent indoor	
	air volatilization problems).	(C) 4 4 111 1 1 1 4 C) 4 1 4 4 1 C 4 1 1 2 1 2
27	Section 10.3 – Please modify to state why it is "not technically	The text will be revised to reflect the text in Section 11.3.1.3.
	feasible to remove all contamination", or remove this statement.	
	Also, please indicate if this statement is suggesting "all"	
	contamination, or all contamination above 9.8 pCi/g. It seems inappropriate to suggest it impossible to remove all of the	
	contamination above the WRW PRG if attempted. Rather, the	
	cost to accomplish this would be even higher than projected for a	
	90% confidence, or even a 95% confidence.	
28	Section 10.5 – 2 nd Paragraph, 3 rd Sentence – Please remove	The text will be revised to reflect the text in Section 11.4.
20	"(signage)", as this implies a specific restriction of the physical	The text will be levised to reflect the text in section 11.4.
	controls that will be implemented.	
29	ES-23 first para. under 10.5 – Revise consistent with the	The text will be revised to reflect the text in Section 11.4.
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following: Alternative 1 does not meet ARARS due to the lack of an EC. Alternative 1 does not meet soil RAO #3 for several reasons, as discussed in comments above, not just because of indoor air volatilization. First sentence should say " or groundwater RAO 3" 30 Table ES.1 page 4 - The CRA COS column states there are no subsurface soil COC's. This is not true under the more conservative CHWA approach noted above. Areas of subsurface hazardous constituent contamination exceeding WRW PRG's, as described in the Nature and Extent section, should be carried forward for analysis in the CMS. 31 Table ES.2 — In the row for "Reduction of Toxicity,", the 4" bullet under Alternative 1 states that all accelerated actions included removal. The soil treatment and replacement that was part of the Ryan's Pit and Trenches T3/4 is an exception. 32 Table ES.2 page 1, NFA alternative 7 the compliance with ARARs box incorrectly states that all ARARs are met. The EC ARAR is not met. Also, cannot assume that OLF IC's are in place. They are not, and implementing them constitutes a response action. 33 Table ES.2, NFA alternative, reduction of toxicity, etc. — Some accelerated actions involved treatment and replacement of contaminated media, not removal. Editorial Comments 5 Editorial Comments 1 In several places the term "legacy waste" is used. This includes page ES-3, third paragraph; page 1-2, twice in the forth paragraph; and page 1-4, forth bullet. Because this term has no significance under RCRA or CERCLA, please delete. It is also recommended to do a global search throughout the document and significance under RCRA or CERCLA, please delete. It is also recommended to do a global search throughout the document and significance under RCRA or CERCLA, please delete. It is also recommended to do a global search throughout the document and significance under RCRA or CERCLA, please delete. It is also recommended to do a global search throughout the document and significance under RCRA or CERCLA, please delete. It is al			
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		1	wastes". A global search was completed and changes made.
recommended to do a global search throughout the document and		, <u> </u>	
		recommended to do a global search throughout the document and	

	delete if found.	
2	The term "operating properly and successfully" is used to refer to	A global search shows the "properly and successfully" term is
	groundwater systems throughout the document. This includes	also used in section 9.5.2. This term will be replaced in the
	page ES-19, paragraph 2; and page ES-21. Because no operating	indicated ES locations and section 9.5.2 to be consistent with
	properly and successfully determination has yet been made by	section 11.3.3.1, subsection 5, as follows: "operating as
	EPA, please substitute language agreed upon from previously	designed to remove contamination in captured groundwater"
	submitted comments. It is also recommended to do a global	·
	search throughout the document and delete if found.	
3	Text of the Executive Summary should be revised to reflect	Changes made to the ES reflect the current text in the main body
	changes to the main body of the report.	of the report.
	Specific Comments	
1	Page ES-3, Section 2.1, third paragraph: Please include special	Change made.
	nuclear materials (SNM) in the list of Acronyms and	
	Abbreviations.	
2	Page ES-6, Section 3.4, 2nd paragraph: The text describes the	The text will be revised to reflect the text in Section 2.2.
	site as having impermeable surfaces (i.e., pavement) impacting	
	surface water flow. This seems confusing as it infers that	
	pavement needs to be removed as a future action. Please revise	
	the text and its conclusion to reflect that all pavement has been	
	removed.	
3	Page ES-7, Section 4.1: The text indicates that fourteen soil	The text will be revised to reflect the text in Section 3.0.
	analytes of interest (AOIs) were identified. As currently written,	
	AOIs only reflect the Wildlife Refuge Worker PRGs and do not	
	include ecological screening levels. The executive summary	
	section will require revision based on future comments on the	
i	Nature and Extent section intended to provide a more	
	comprehensive discussion of risk.	
4	Page ES-11, Section 5.2, Fourth paragraph: The final sentence	No change made.
	states "This protection also serves to meet long-term goals for	
	returning groundwater to its beneficial use of surface water	
	protection." Consider rephrasing or deleting this sentence as its	
	intent is unclear.	
5	Page ES-13, Section 6.1, 3rd full paragraph: Indicates that the	The text will be revised to reflect the text found in Section 7.7.

	benzo(a)pyrene samples are " now several feet underneath a landfill cover." Please revise this statement to identify the Original Landfill.	
6	Page ES-14, Section 6.3: The statement that "Ingestion of groundwater is an incomplete pathway" should be clarified as to describe why it is an incomplete pathway (i.e., institutional controls).	The text will be revised to state: As described in Volume 2 of the CRA, the RFCA Vision states that on-site groundwater will not be used for any purposes unrelated to RFETS cleanup activities. Therefore, the pathway for direct ingestion of groundwater is incomplete.
7	Page ES-17, Groundwater RAO 1: Please describe the monitoring performed to demonstrate how this RAO is met.	The text will be revised to reflect the groundwater RAO 1 conclusion found in Section 10.2.2.1.
	Editorial Comments	
	None	
U.S. Fish	and Wildlife Service's (USFWS) Comments	
	General Comments	
	None	
	Specific Comments	
	None	
	Editorial Comments	
	None	